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## [12] 实用新型专利说明书

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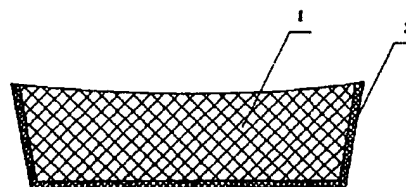
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权利要求书 1 页 说明书 2 页 附图页数 2 页

[54]实用新型名称 复合多彩植绒鞋底

[57]摘要

本实用新型涉及一种表面经加工处理的鞋底。其特征为：采用植绒技术等工艺在鞋底基材(1)的外表面或侧面局部上植制绒层(2)。还可以在植绒之前或之后印制彩色花纹图案，形成复合多彩植绒鞋底。具有外表美观、脚感舒适、耐磨防滑、耐老化、耐洗涤、不褪色等特点。配上相应的鞋帮，可制成各式皮鞋、凉鞋、拖鞋等。



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1、一种复合多彩植绒鞋底，其特征为：在鞋底基材(1)的外表面或侧面局部，有一植绒层(2)。

2、根据权利要求1所述的鞋底，其特征为：在所述鞋底基材(1)的侧表面与植绒层(2)之间，有一彩印油墨层(3)，植绒层(2)为透明植绒层。

3、根据权利要求1所述的鞋底，其特征为：在所述鞋底侧表面的植绒层(2)上，有一彩印油墨层(4)。

4、根据权利要求1或2所述的鞋底，其特征为：在所述鞋底侧面的植绒层(2)上，局部有单层或多层再植绒层(5)。

5、根据权利要求3所述的鞋底，其特征为：在所述鞋底侧表面的彩印油墨层(4)上，局部有单层或多层再植绒层(5)。

## 复合多彩植绒鞋底

本实用新型涉及一种表面经加工处理的鞋底。

目前，国内外鞋底的表面加工处理一般是用化工油墨喷色。但化工油墨对人体有害，且污染环境，经化工油墨喷色的鞋底，存在易褪色、易燃烧、外表面粗糙等缺点。

本实用新型的目的在于克服上述鞋底存在的缺点，提供一种其表面无毒、不褪色、不易燃烧、耐老化的鞋底。

本实用新型目的的实现，是采用植绒技术等工艺在鞋底基材的外表面或侧面局部上，植制绒层。植绒层可以是各种颜色或多彩色。

本实用新型，可以先在鞋底侧面经过丝印、热转印、水转印、烫金、喷色等印花着色处理后，再在鞋底的外表面上植制绒层。也可以先植绒后再在植绒层上进行印花着色。还可以在鞋底的侧表面的植绒层上再局部植绒，如花草、动物、文字、商标等图案。局部再植绒可以是单层或多层，多层时呈立体图案。还可以在植绒层上热烫上各种花纹图案，增强立体感。

植绒工艺能使原来外表面粗糙的鞋底得到改良，印花着色和植绒复合工艺适合于各种基材的鞋底，可制成各种多彩鞋底。植绒鞋底或鞋底侧面局部植绒的鞋底，供鞋厂配上相应的鞋帮，可制成各式皮鞋、革鞋、凉鞋、拖鞋等。拖鞋鞋底，可连同鞋底的上表面也植上绒层。

本实用新型，具有如下特点：外表美观、立体感强、脚感舒适、耐磨防滑，植绒层不燃烧、耐老化、耐洗涤、不褪色等。

下面实施例结合附图对本实用新型的结构作进一步描述。

图1~图5分别为实施例1~5之复合多彩植绒鞋底的结构剖视图。

图中，1、鞋底基材 2、植绒层 3、4、印刷油墨层 5、植绒层。

实施例1、参照图1，采用植绒技术在鞋底基材1的外表面上制作植绒层2，植绒层可以为各种颜色或多彩色。

实施例2、参照图2，首先采用丝印、热转印、水转印、烫金或喷色等

技术，在鞋底基材1的侧表面上进行印花着色，形成各种色彩图案的印刷油墨层3，然后再采用植绒技术在鞋底的外表面上制作植绒层2，植绒层为透明植绒层，底层的印刷油墨层3可透视出来。

实施例3、参照图3，先在鞋底基材1的外表面上制作植绒层2，再在植绒层2上进行彩印着色，形成印刷油墨层4，其图案更加清晰和鲜艳。

实施例4、参照图4，在以上实施例(以实施侧2为例)的基础上，在鞋底侧表面上，按照花草、动物、文字、商标等图案植绒，形成局部再植绒层5，局部再植绒层可以为单层或多层，多层时，立体感更强，效果更好。

实施例5、参照图5，采用植绒技术在鞋底基材1的侧面上局部制作植绒层5，植绒层可以为各种颜色的花草、动物、文字、商标等图案，局部植绒增强其装饰性。

说明书附图

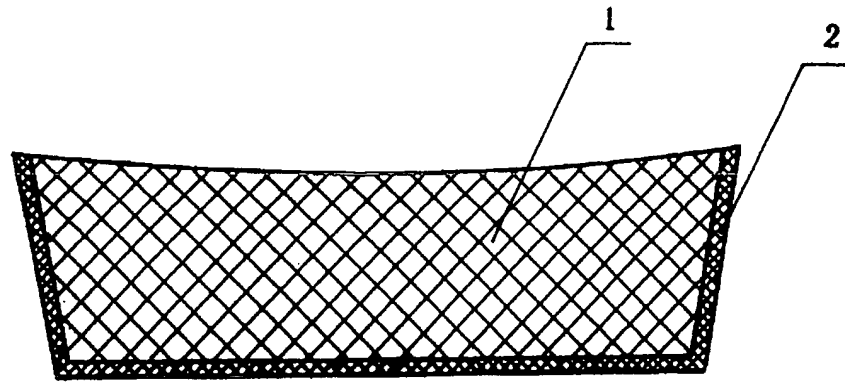


图 1

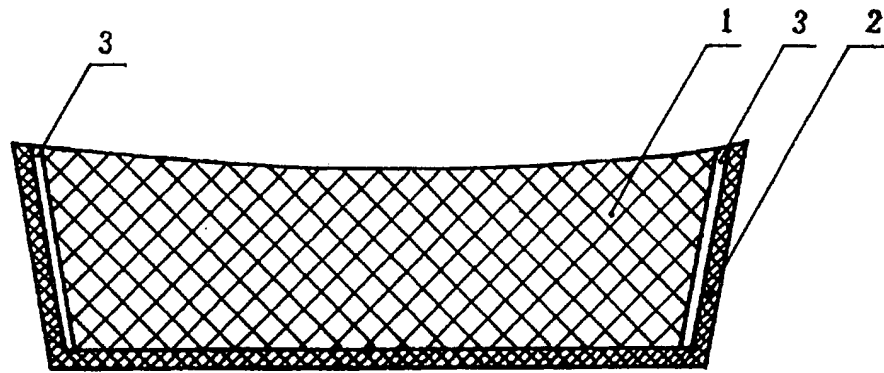


图 2

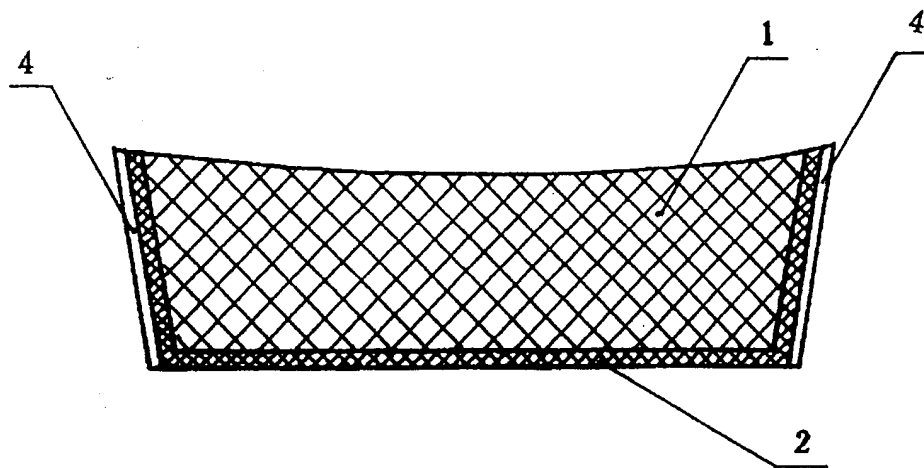


图 3

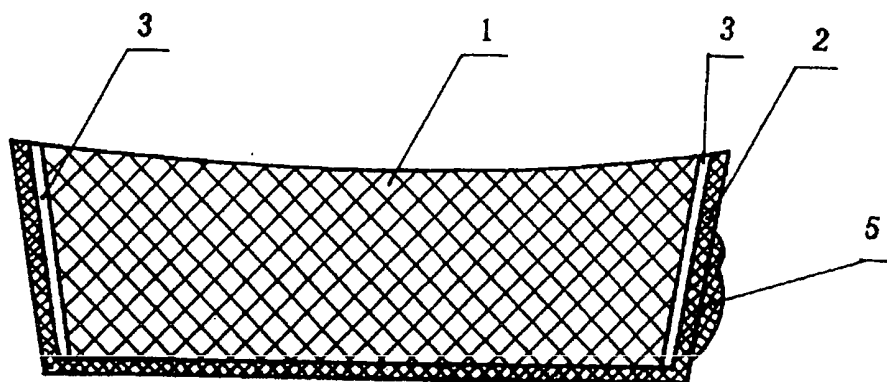


图 4

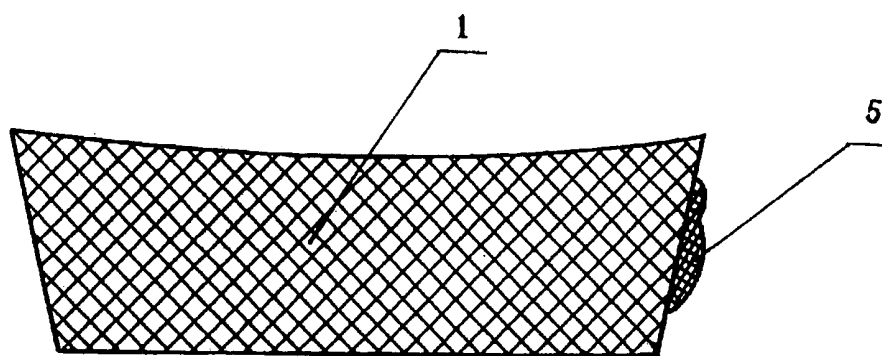


图 5

## Patent Document Translation #1 (Attachment on Left)

- [12] Explanation for a Practical and New Patent  
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[72] Designer: Sun Shu-ming Sun Xiao-dong  
[21] Application #: 98234514.3  
[54] Name of the Practical and New Patent: Layered Multi-Color Flocking Sole  
[57] Summary  
This new patent involves a sole with surface being processed. Its characteristics are: Employing flocking (and related) technique to plant a layer of flocking (2) on surface or on a part of the side of the sole material (1). Layered multi-color flocking sole can be formed by printing colorful designs before or after flocking. It possesses qualities such as beautiful appearance, comfort, skid-resistance, anti-aging, washable and color fastness. It could be made into all kinds of leather shoes, sandals, slippers...etc, with compliment of appropriate uppers.

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### Request of Rights

1. A type of layered multi-color flocking sole, its characteristic: a flocking layer (2) on surface or on part of the side of sole material.
2. Sole referenced in 1, its characteristic: existence of a printing layer (3) between side of the referenced sole material (1) and flocking layer (2). Flocking layer (2) is a transparent flocking layer.
3. Sole referenced in 1, its characteristic: existence of a printing layer (4) on the flocking layer, of the side of the sole.
4. Sole reference in 1 or 2, its characteristic: existence of single or multiple layers (5) of flocking, on the flocking layer (2) on the side of the sole.
5. Sole referenced in 3, its characteristics: existence of single of multiple layers (5) of flocking, on the printing layer of the side surface of the sole.

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### Explanation

#### Layered Multi-color Flocking Sole

This patent involves a sole with surface being processed.

Most of soles, domestic and international, involve processing by chemical spray paint. However chemical spray paint is damaging to the human body and environment. Spray painted soles have shortcomings such as color fading, flammable and rough exterior.

The purpose of this new patent is to overcome shortcomings referenced above and provide a non-toxic, color fastness, not easily flamed and anti-aging sole.

The execution of this new patent is by employing flocking (and related) technique to plant a layer of flocking on surface or on a part of the side of the sole material. Flocking layer can be of multiple colors.

This patent can be applied on to the surface of the sole after its side has been colored with screen printing, heat transfer, water transfer, heat stamping or spray painting. Colors or designs can also be applied on to the flocking layer, after flocking has been completed. Partial flocking can also be applied on to part of an already flocked side, creating designs such as flowers, plants, animals, characters, logos...etc. Partial re-flocking can be of single or multiple layers; multiple layers create a 3-D effect. All kinds of designs could be heat-stamped onto the flocking layer, to increase the 3-D effect.

Flocking can improve the previously rough exterior of the sole; combination of printing/coloring and flocking is suitable for all kinds for sole materials. It can be utilized to produce all kinds of outsoles. Bottom flocking or partial side flocking, accompanied by appropriate uppers, can be utilized to produce all kinds of leather shoes, sandals, slippers...etc. Slipper soles, along with its upper, can be flocked as well.

This practical new patent has the following characteristics: Beautiful appearance, 3-D effect, comfort, skid-resistance, non-flammable flocking layer, anti-aging, washable and color fastness.

Sketches 1-5 below can further illustrate the cross section of examples 1-5, Layered Multi-color Flocking Sole.

1. Sole material. 2. Flocking layer. 3 and 4. Printing layer. 5. Flocking layer.

Example 1, sketch 1, utilizing flocking technique on surface of sole material (1) to produce flocking layer (2), flocking layer could be of multiple colors.

Example 2, sketch 2, Using screen printing, hear transfer, water transfer, heat stamping and spray painting to color or print designs on the side of sole material, to form a layer (3) of different color and designs. Then employ flocking technique on surface of the sole, to produce a flocking layer (2). Flocking layer is a transparent layer, and printed layer (3), on the base layer, can be seen.

Example 3, sketch 3, produce flocking layer (2) on the surface of sole, then print colors on the flocking layer (2). This forms a printing layer (4), with prints that are even more clear and vivid.

Example 4, sketch 4, based on example referenced above (using example 2), flocking can be utilized to produce designs such as flowers, plants, animals, characters and logos, forming partial re-flocking layer (5). Partial re-flocking layer could be of single or multiple layers. Multiple layers can enhance 3-D effect, thus enhancing the overall effect of flocking.

Example 5, sketch 5, utilize flocking on the side of sole surface (1), to produce partial flocking layer (5). Flocking layer can be flowers, plants, animals, characters and logos of all colors. Partial flocking strengthens its decorative function.